# Netherlands Journal of Agricultural Science

Volume 25(1977)

*Editorial Board:*
Dr Ir J. P. van den Berg
Ir J. G. P. Dirven

*Copy Editor:*
D. G. van der Heij

**Author index**

Arkel, H. van, New forage crop introductions for the semi-arid highland areas of Kenya as a means to increase beef production 135
Bakker, J., see Vreman, K. 303
Bannink, D. W., P. Poelstra & M. J. Frissel, An installation for transport and accumulation studies on undisturbed soil columns under controlled conditions 126
Beets, W. C., Multiple cropping of maize and soya beans under a high level of crop management 95
Bergh, S. G. van den, see Metz, S. H. M. 198
Bisdom, E. B. A., S. Henstra, A. Jongerius, J. D. Brown, A. P. von Rosenstiel & D. J. Gras, Light and heavy element detection in thin sections of soils with the ion microprobe mass analyzer (IMMA) 1
Boone, F. R. & C. J. van der Elst, Soil factors affecting the germination of potatoes left on the field after harvest 32
Boxma, R., Evaluation of phosphate in fertilizers by means of the alkaline ammonium citrate extraction according to Petermann 42
Brinkman, Robert, Problem hydromorphic soils in north-east Thailand. 2. Physical and chemical aspects, mineralogy and genesis 170
Brinkman, Robert & P. J. Dieleman, Problem hydromorphic soils in north-east Thailand. 3. Saline-acid conditions, reclamation, improvement and management 263
Brinkman, Robert, A. G. Jongerius & R. Miedema, Problem hydromorphic soils in north-east Thailand. 1. Environment and soil morphology 108
Brown, J. D., see Bisdom, E. B. A. 1
Darwinkel, A., B. A. ten Hag & J. Kuizenga, Effect of sowing date and seed rate on crop development and grain production of winter wheat 83
Dieleman, P. J., see Brinkman, Robert 263
Dusseldorp, D. B. W. M. van, Some thoughts on the role of social sciences in the agricultural research centres in developing countries 213
Elst, C. J. van der, see Boone, F. R. 32
Frissel, M. J., see Bannink, D. W. 126
Gerrits, J. P. G., The significane of gypysum applied to mushroom compost, in particular in relation to the ammonia content 288
Geurink, J. H., see Kemp, A. 51
Gras, D. J., see Bisdom, E. B. A. 1
Haalstra, R. T., see Kemp, A. 51
Hag, B. A. ten, see Darwinkel, A. 83

Heastra, S., see Bisdom, E. B. A. 1
Hoek, J. van den, see Vreman, K. 303
Houba, V. J. G., see Novozamsky, I. 26
Jongerius, A., see Bisdom, E. B. A. 1
Jongmans, A. G., see Brinkman, Robert 108
Kemp, A., J. H. Geurink, R. T. Haalstra & A. Malestein, Nitrate poisoning in cattle. 2. Changes in nitrite in rumen fluid and methemoglobin formation in blood after high nitrate intake 51
Kronenberg, H. G., Tulip bulb production potentials in Europe 229
Kuizenga, J., see Darwinkel, A. 83
Kupers, L. J. P., see Scholte, K. 255
Liere, W. J. van, Southeast Asia – potential world food basket 14
Malestein, A., see Kemp, A. 51
Metz, S. H. M. & S. G. van den Bergh, Regulation of fat mobilization in adipose tissue of dairy cows in the period around parturition 198
Miedema, R., see Brinkman, Robert 108
Novozamsky, I. & V. J. G. Houba, Determination of free ammonium in plant tissue 26
Poelstra, P., see Bannink, D. W. 126
Rodrigues Pereira, A. S., Determination of leaf area coefficient in sunflower 238
Roos, A. H., see Vreman, K. 303
Rosenstiel, A. P. von, see Bisdom, E. B. A. 1
Scholte, K. & L. J. P. Kupers, The causes of the lack of self-tolerance of winter-rye, grown on light sandy soils. 1. Influences of foot rots and nematodes 255
Shaykewich, C. F. & L. Stroosnijder, The concept of matric flux potential applied to simulation of evaporation from soil 63
Sibma, L., Maximization of arable crop yields in the Netherlands 278
Spiertz, J. H. J., The influence of temperature and light intensity on grain growth in relation to the carbohydrate and nitrogen economy of the wheat plant 182
Stroosnijder, L., see Shaykewich, C. F. 63
Tuinstra, L. G. M. Th., see Vreman, K. 303
Velsen, A. F. M., Anaerobic digestion of piggery waste. 1. The influence of detention time and manure concentration 151
Vertregt, N., The formation of methemoglobin by the action of nitrite on bovine blood 243
Visser, H. de, see Vreman, K. 303
Vreman, K., L. G. M. Th. Tuinstra, J. Bakker, J. van den Hoek, A. H. Roos, H. de Visser & J. H. Westerhuis, Aldrin, heptachlor and $\beta$-hexachlorocyclohexane to dairy cows at three oral dosages. 2. Residues post partum in milk and body fat of cows fed on pesticides in the dry period 303
Westerhuis, J. H., see Vreman, K. 303
Wijk, A. J. P. van, An application of a multiple regression method in tropical grass breeding 103

## Subject index

This index lists the keywords given at the head of the articles. The figures refer to the first pages of papers, not to the exact pages where the subjects are mentioned.

adipose tissue 198
agricultural research 213
aluminium toxicity 263
ammonia 288
anaerobic digestion 151
available phosphate 42
beef 135
blood 243
body fat 303
bulrush millet 135
carbohydrates 182
cattle 51, 243

clayified root 1
cold tolerance 135
cows 198, 303
crop growth rate 278
crop rotation 255
cropping systems 95
dairy cows 198
disease control 83
drought resistance 135
dry matter distribution 182
dry period 303
Europe 229
evaporation 63
feedlots 135
fertilizers 42
food production 14
foot rots 255
forage crops 135
free ammonium 26
fungicides 255
gas diffusion electrode 26
germination 32
glucose 198
grain growth 182
grain yield 83
groundkeepers 32
gypsum 288
harvest index 182
interlaying 170
Ion Microprobe Mass Analyzer (IMMA) 1
kaolinite dissolution 170
leaf area 238
light intensity 182
light interception 278
lipolysis 198
maize 95, 135
matrix flux potential 63
mechanical crushing 32
methemoglobin 51, 243
methemoglobin formation 51
milk fat 303
mixed cropping 95
multi-cropping 14
multiple cropping 95
multiple regression 103
mushroom 288
mushroom compost 288
nematodes 255
nitrate poisoning 51
nitrite 51, 243
nitrite in rumen 51
nitrogen content 182
noradrenalin 198
odour control 151
paddy soils 108, 170, 263
parturition 198
pesticides 303
piggery waste 151
plant tissue 26
potential production 229, 278
potentiometry 26
quality control 42
re-esterification 198
rural development 213
rye 255
seed rate 83
seed yield 103
selection of variables 103
self-tolerance 255
*Setaria sphacelata* 103
silage 135
simulation 63
social sciences 213
soil structure 32
sorghum 135
source population 103
south-east Asia 14
sowing date 83
soya beans 95
submicroscopic technique 1
sunflower 135, 238
temperature 182
thin sections of soil 1
tiller age 83
tulip 229
tulip bulb 229
uptake of nitrogen 255
volunteer potatoes 32
weathering 108
winter wheat 83
yield components 83
zebu 135